

NVA

Nota Vision Agent

NVA (Nota Vision Agent)

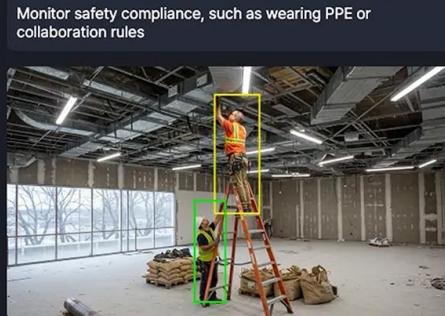
A Generative AI-Powered Vision Agent

NVA (Nota Vision Agent) is a Vision-Language Model (VLM)-powered surveillance solution that autonomously perceives and understands on-site situations. It instantly detects and analyzes potential hazards from real-time video streams, dramatically enhancing safety management efficiency across industries.

Nota Vision Agent

One Agent. Any Domain.

Industrial Safety : PPE & Coworking



Industrial Safety : Forklift Collision Risk



ITS : Traffic Accident Report



Smart City Surveillance



Smart Building Security



Retail Security



Key Features

Real-time Contextual Scene Understanding



- Enables proactive awareness and accurate detection of previously unseen anomalies
- Delivers instant alerts to enable swift response and prevent accidents

Automated Prompt-driven Intelligence



- Defines detection scenarios through natural language prompts
- Supports intuitive video search and auto-generated reports, reducing manual workload

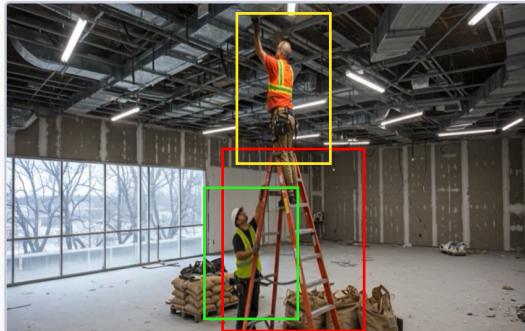
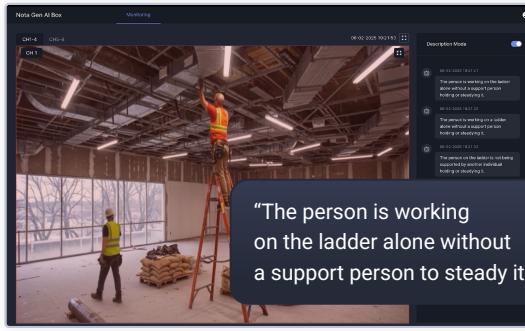
Edge-oriented Execution



- Processes video data entirely on-site, ensuring privacy and compliance
- Delivers low-latency inference on resource-constrained hardware

Technical Capabilities

Combined Strengths of CV and VLM

Detection Methodology		Strengths
CV	 <p>Ladder</p> <p>Person</p>	
	 <p>Two workers are working together using a ladder</p>  <p>Two workers are working together using a ladder</p>	<ul style="list-style-type: none">High-speed, high-precision detection of trained objectsReliable for repetitive, rule-based detection tasks
VLM	 <p>Two workers are working together using a ladder</p>  <p>Two workers are working together using a ladder</p>	 <p>The person is working on the ladder alone without a support person to steady it.</p> <ul style="list-style-type: none">Interprets complex situations and environmental contextIdeal for behavior and judgment-based detection

Proficient in Both CV and VLM, Nota AI Delivers Optimal Solutions Tailored to **Each Customer's Needs**

Technical Capabilities

#1

Well-Defined Object Detection



Detecting hazardous elements with distinct characteristic in specific areas

Both **CV** and **VLM** Appropriate

Scenario-Based Model Application

#2

Requiring Value Judgement



Analyzing and predicting potential damage levels or spread areas based on current condition

VLM Required

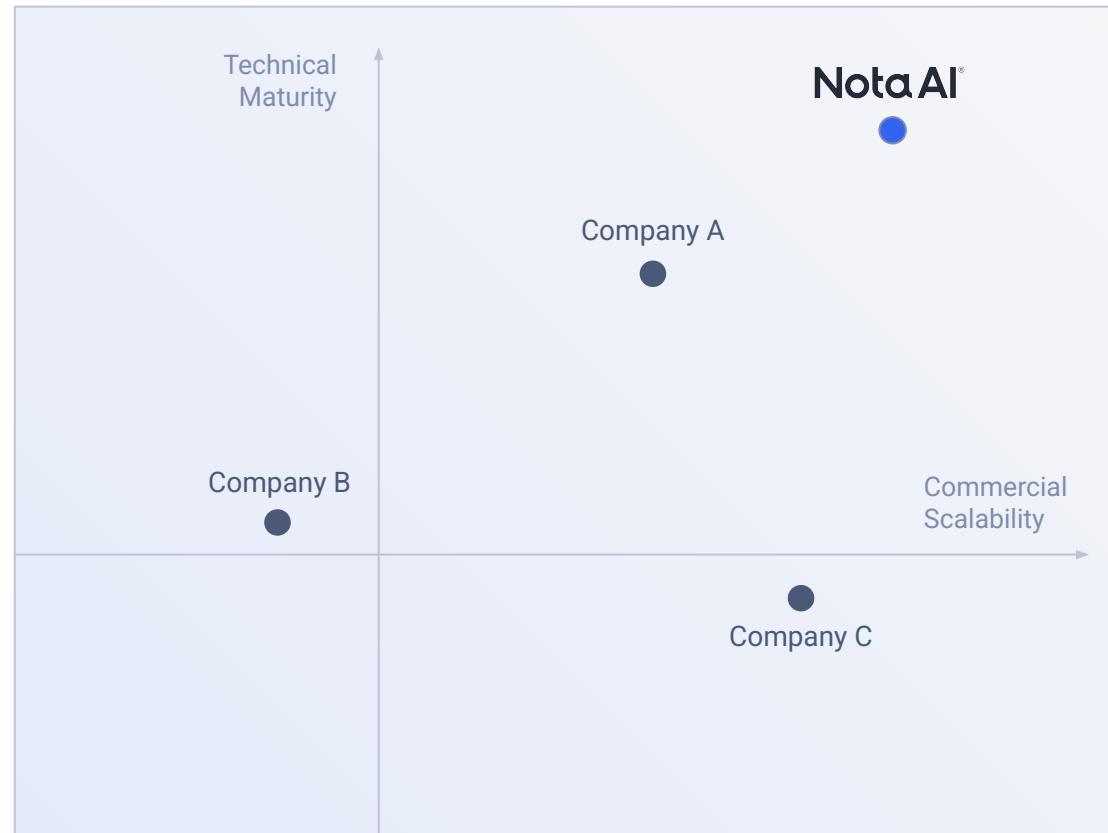
#3

Behavior-Based Hazard Detection



Identifying potential risks such as SOP violations, negligence, and unsafe actions to proactively prevent incidents

Competitive Advantage



Market Positioning

Evaluation Criteria		Nota AI	A	B	C
Technical Maturity	VLM Capability	✓	△	✗	✗
	Vision Model Versatility	High	Limited	Low	Limited
	Edge Deployment	✓	△	✓	✗
	Commercial Deployment	High	High	High	Limited
	End-to-End Delivery	✓	△	△	✗
	PoC-to-Production	✓	✓	✓	△

Evaluation Criteria

* **Technical Maturity:** Expertise in developing and deploying diverse Vision AI models

* **Commercial Scalability:** Proven ability to deliver end-to-end solutions from PoC to full-scale production

Legend

- ✓ Available
- ✗ Not available
- △ Partial

High: Multiple commercial deployments

Limited: Few deployments

Low: PoC-level only

Competitive Advantage



Multi-Model Vision AI Expertise

Ability to develop and deploy vision AI models—including VLM and CV—in the most effective combination for each scenario.

Key Differentiators



Edge Deployment Capability

Designed to operate reliably within constrained hardware and network environments, powered by proprietary AI compression and optimization technologies.



Proven End-to-End Delivery Experience

Validated through commercial deployments, scaling from PoC to full production systems.

Customer Benefit



Achieving High Detection Performance

- Combines various vision AI technologies to address a wide range of detection requirements
- Customizes model configurations based on site-specific characteristics and detection complexity



Maximizing Business Productivity

- Compatible with existing CCTV and video management systems without the need for additional equipment purchases
- Can be applied on-site within 2–3 weeks without complex pre-training



Improving Operational Efficiency

- Reduces administrative workload with features such as automated analysis reports and video search
- Enables efficient personnel allocation through automated CCTV monitoring

NVA In Action

The screenshot displays the Nota Vision Agent's real-time monitoring interface. On the left, a sidebar shows a search bar for '사이트명, 채널명 검색' and a dropdown menu for '전체 목록' containing items like '출고 대기장' (selected), '1번 카메라', '2번 카메라', '3번 카메라' (highlighted with a blue dot), '4번 카메라', '입고 처리구역', '지게차 이동통로', and '피킹 작업존'. Below this is a 'Searchable List of Hazard Detection Zone and Channels' section. The main area shows four camera feeds labeled '출고 대기장 1번 카메라', '출고 대기장 2번 카메라', '출고 대기장 3번 카메라', and '출고 대기장 4번 카메라'. The 2nd camera feed is highlighted with a red border and shows a warning message: '경고 PPE 미착용(안전모) 검지됨' (Warning: PPE (Safety Helmet) not worn detected). The bottom right corner of the interface has a dark overlay with the text '출고 대기장 2번 카메라에서 PPE미착용(안전모)이 검지 되었습니다.' (PPE (Safety Helmet) not worn detected in the 2nd camera of the shipping hold) and a close button 'X'.

Real-Time Monitoring

Real-Time Hazard Alerts

- Enables proactive safety measures through integrated real-time alerts
- Allows monitoring personnel to respond immediately to detected hazards

NVA In Action

Dashboard



Industrial hazards are categorized, tracked, and converted into data

Displays the precise location of each hazardous incident

Visualizes and analyzes incident occurrence data by month and category

NVA In Action

Rule Setting

The screenshot shows the NVA (Nota Vision Agent) interface for 'Industrial Safety'. On the left, a sidebar lists 'Detection Tasks': 'All List', 'Search name' (with a search icon), 'NVA_01_PPE' (expanded to show 'Action Violation Detection Rule' and 'PPE Safety Rule'), and 'NVA_02_Forklift' (expanded to show 'Forklift Violation Detection Rule'). A blue dashed box highlights this sidebar.

The main area displays the 'NVA_01_PPE - Action Violation Detection Rule' configuration. It includes sections for 'Basic settings' (Cropping Padding: 5, Crop type: People, Number of image sequence: 0, Frame drop: 0), 'ROI settings' (Assistant Detection ROI), and 'Prompt settings' (containing a natural language prompt for ladder safety analysis).

Callouts provide additional context:

- Video Analytics Setting**: Points to the 'Basic settings' section.
- Monitoring Specific Hazard Zone**: Points to the 'ROI settings' section.
- Add or Edit Detection Rules**: Points to the 'Prompt settings' section.

List of Detection Tasks

- Easily search existing rules

NVA In Action

Incident Search

조회

이벤트 조회

기간: 2025-02-24 ~ 2025-03-10 사이트: 전체 이벤트: 전체 위험 레벨: 전체 정렬: 최신순 CSV 다운로드

확인 상태: 전체 6개 항목 표시

일시	사이트명	채널명	위반 이벤트	위험 레벨	확인 상태
2025-01-17 19:50:01	출고 대기장	1번 카메라	건설기계 충돌 예방	위험	미확인
2025-01-17 19:50:01	출고 대기장	2번 카메라	컨베이어 벨트 침입	경고	확인
2025-01-17 19:50:01	출고 대기장	1번 카메라	안전모 미착용	주의	확인
2025-01-17 19:50:01	지게차 이동통로	1번 카메라	안전모 미착용	주의	확인
2025-01-17 19:50:01	출고 대기장	3번 카메라	안전모 미착용	주의	확인
2025-01-17 19:50:01	피킹 작업존	2번 카메라	안전모 미착용	주의	확인
2025-01-17 19:50:01	입고 처리구역	4번 카메라	안전모 미착용	주의	확인
2025-01-17 19:50:01	출고 대기장	4번 카메라	안전모 미착용	주의	확인
2025-01-17 19:50:01	지게차 이동통로	2번 카메라	안전모 미착용	주의	확인
2025-01-17 19:50:01	출고 대기장	2번 카메라	안전모 미착용	주의	확인
2025-01-17 19:50:01	입고 처리구역	3번 카메라	안전모 미착용	주의	확인

검색된 항목: 6개

페이지: 1 / 2

2025-02-15 12:49:11 | 🔔 🔍

» 컨베이어 벨트 침입

발생 정보

일시: 2025-01-17 19:50:01
사이트명: 출고 대기장
채널명: 2번 카메라
위험 레벨: 경고
확인 상태: 확인
비고: 작성된 내용이 없습니다.

이벤트 확인

검지 기록



Search Specific Incident

- Search specific events by applying filters from all collected footage
- Supports natural language search
- Eliminates the need for manual review of all footage

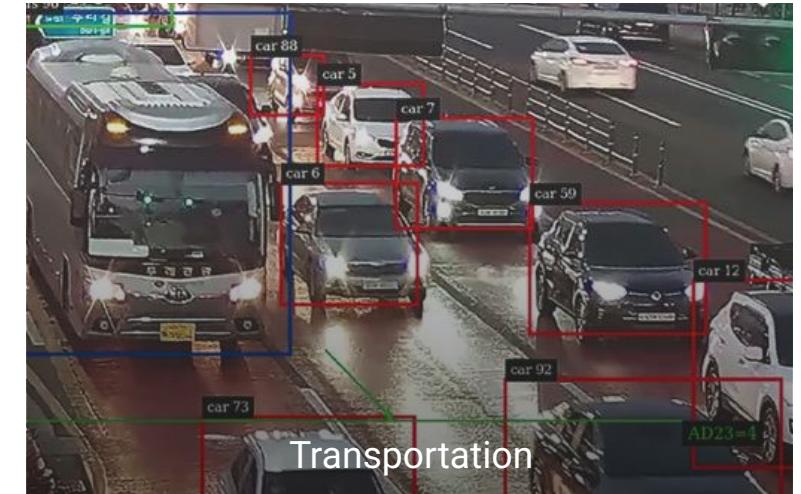
Applicable Industries



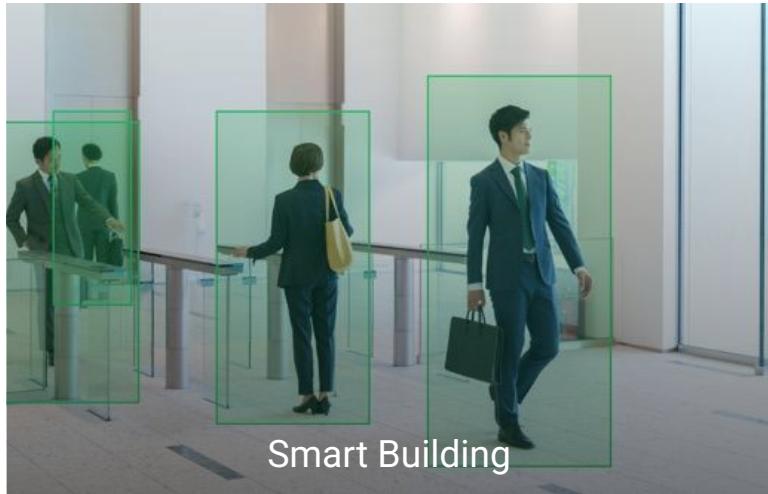
Industrial Safety



Surveillance



Transportation



Smart Building



Retail



Child care / Senior care

Use Cases

Industrial Safety

Chemical & Textile Manufacturer "K"

Challenge

Problem 01

Traditional monitoring systems lack the ability to interpret complex worker behaviors

Solution

Equipment Interlock as a potential safety mechanism to halt machinery in hazardous zones

Problem 2

Personal protective equipment (PPE) violations and unsafe behaviors often go unnoticed until incidents occur

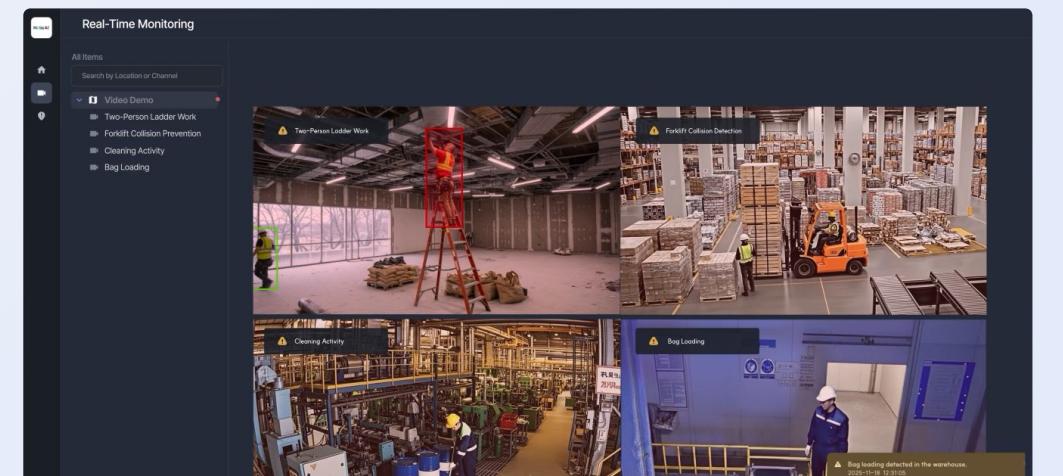
Result

Proactive Accident Prevention

Proactively detects and blocks human error-based hazards, preventing accidents at the source

High SOP Compliance Accuracy

Achieved F1 Score of 85+ for SOP compliance accuracy across all tested tasks



Use Cases

Surveillance

Municipal Government "G"

Challenge

Problem 01

Illegal dumping is difficult to monitor consistently across widespread public areas

Solution

High-accuracy NVA detects smoke and burning activities to prevent fire incidents in real-time

Problem 2

Smoke and burning activities often go undetected until fire incidents escalate

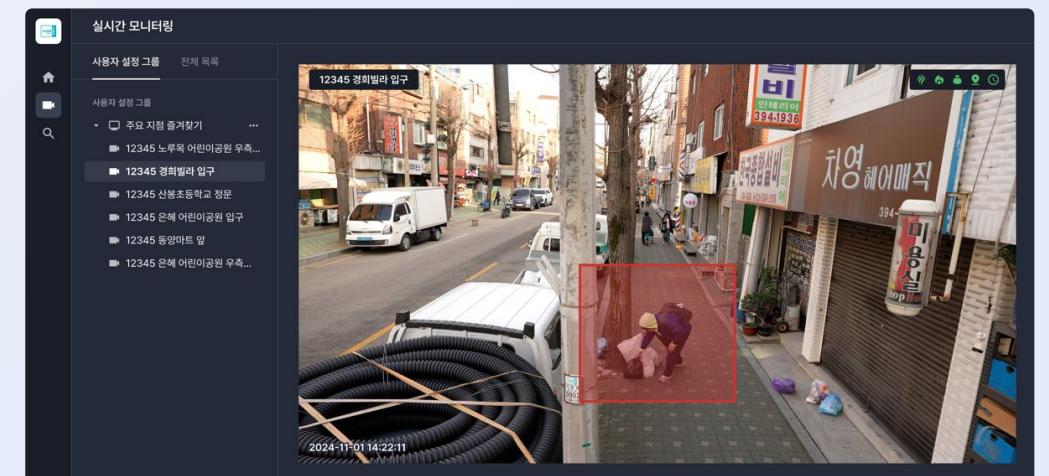
Result

Enhanced Public Safety Response

Improved response efficiency for public safety incidents

Privacy-Compliant Monitoring

Enabled consistent monitoring while maintaining strict privacy and data governance compliance



Use Cases

Transportation

UAE Roads and Transport Authority

Challenge

Problem 01
Rapid detection of road incidents is critical across vast highway networks with high-speed traffic

Solution

VLM-powered NVA detects road incidents and anomalies in real-time directly on edge devices

Result

High Incident Detection Accuracy

Achieved 95%+ accuracy in road incident detection during PoC validation

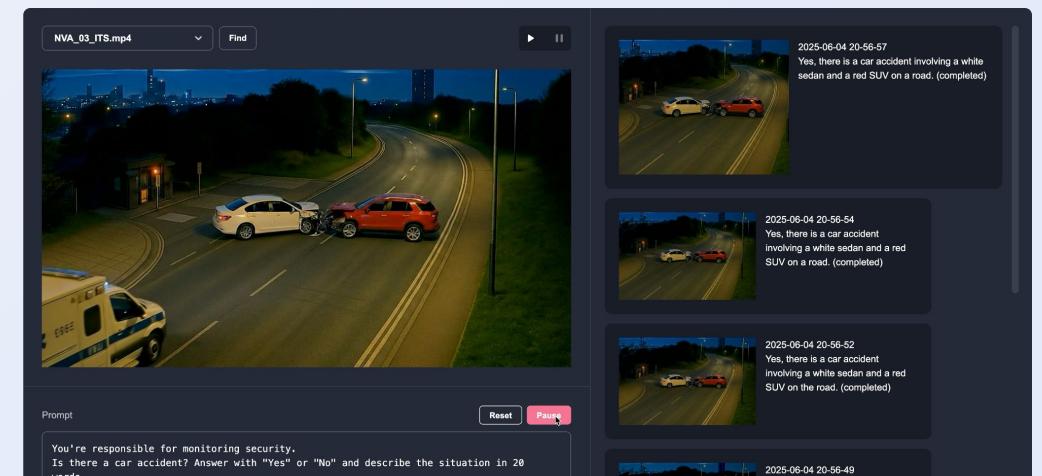
Operational Cost Efficiency

Reduced cloud dependency, lowering operational costs while enabling real-time response

Problem 2

Cloud-dependent systems pose challenges in latency, operational costs, and data security compliance

On-device processing ensures minimal latency while maintaining strict data privacy and security standards



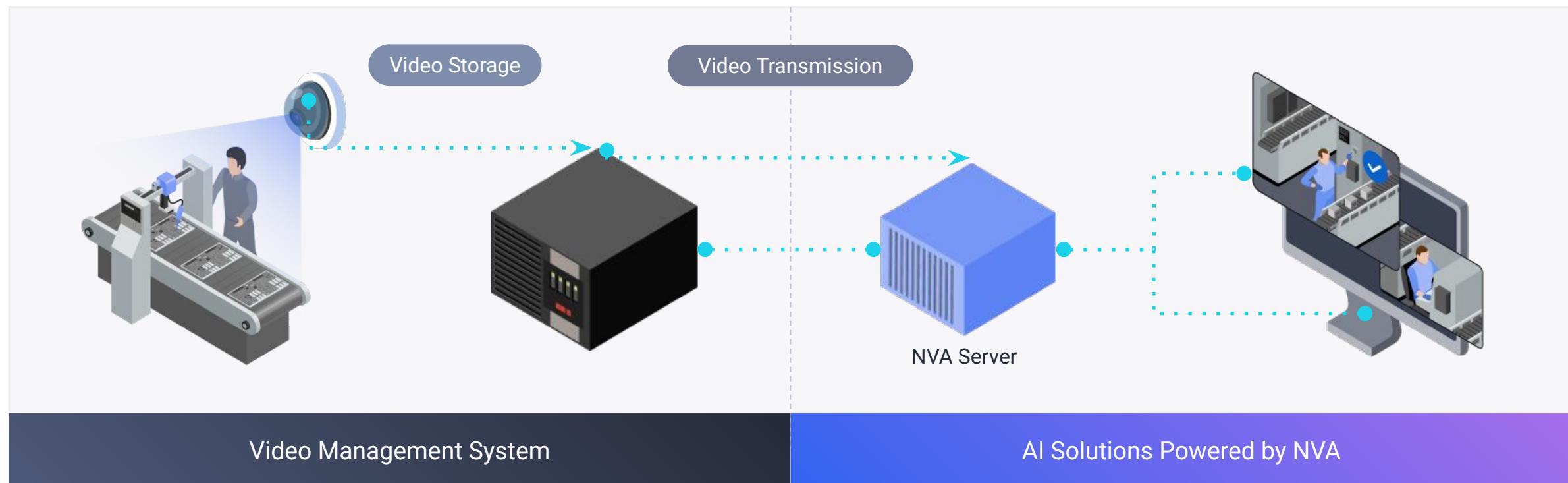
Pipeline

No additional equipment required

Easily integrate by connecting the 'NVA server' to existing video management systems.

Rapid On-Site Deployment

NVA can be rapidly implemented in the field within just 2–3 weeks, without complex pre-training processes.



The logo consists of the word "Nota" in a white sans-serif font, where the letter "o" is filled with a bright cyan color. To the right of "Nota" is the word "AI" in a white sans-serif font.

NotaAI